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Polyetheresteramide and antistatic resin composition containing it
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Abstract:

A polyetheresteramide having good heat resistance, permanently antistatic property and superior compatibility with thermoplastic resins and a resin composition containing the polyetheresteramide are disclosed. The polyetherester-amide consists essentially of a polyamide oligomer with carboxylic chain ends having a number average molecular weight between 200 to 5,000 and a bisphenol compound with oxyalkylene units having a number average molecular weight between 300 to 3,000. Antistatic resin compositions with good antistatic property and heat resistance are obtained from compositions comprising 3 to 40 % by weight of the polyetheresteramide and 60 to 97 % by weight of thermoplastic resins. The antistatic resin compositions can contain as compatibilizers vinyl polymers having functional groups such as carboxyl and epoxy groups or block polymers containing polyolefin blocks and aromatic vinyl polymer blocks. To further improve the antistatic property of the resin composition a composition comprising at least 97 % by weight of the polyetheresteramide and at least 0.01 % by weight of an alkali metal or alkaline earth metal halide can be used in the same way as the polyetheresteramide.